EU189967869O5

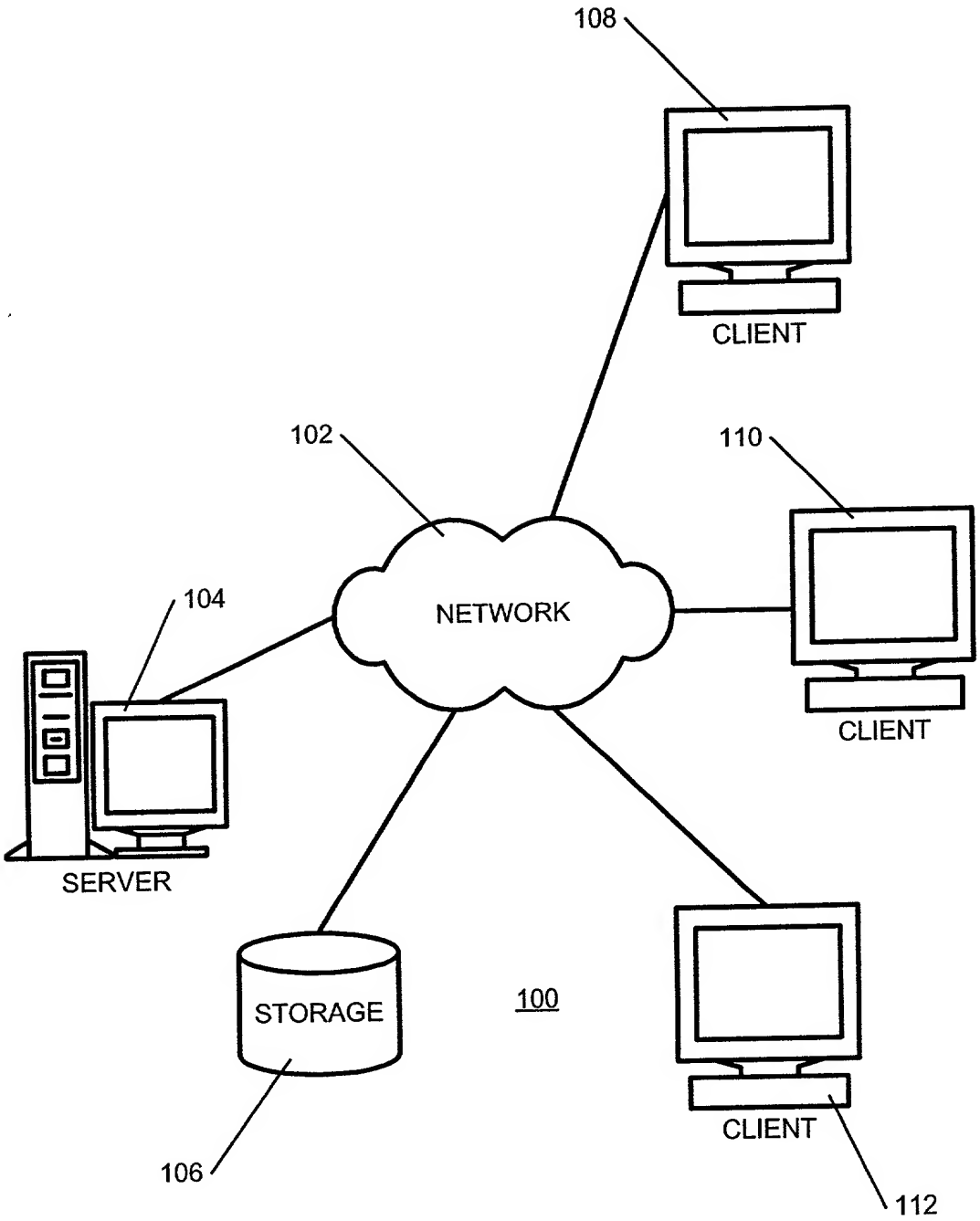

FIG. 1

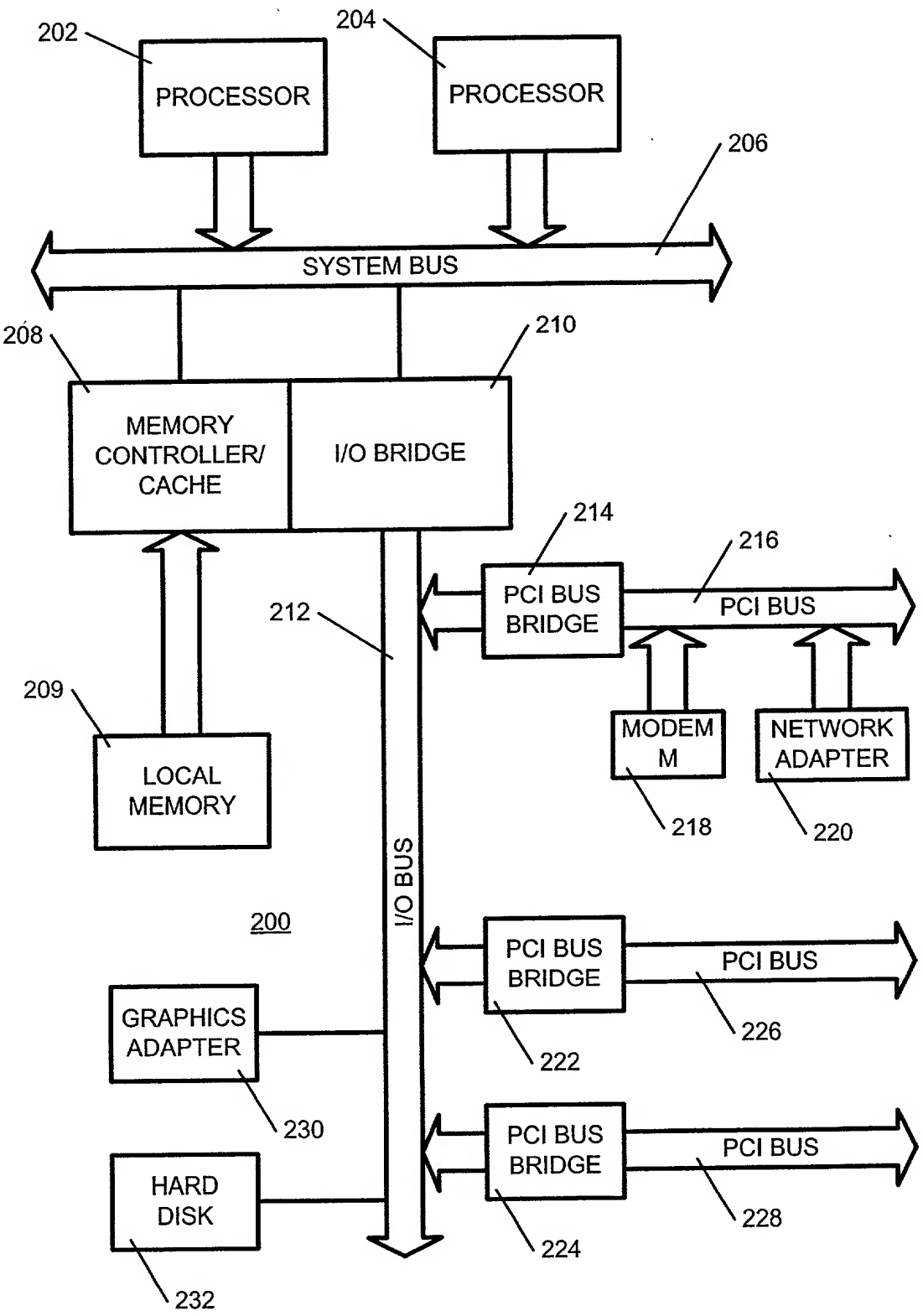
202
PROCESSOR
204
PROCESSOR
206
SYSTEM BUS
208
210
MEMORY CONTROLLER/ CACHE
I/O BRIDGE
214
216
PCI BUS BRIDGE
PCI BUS
212
209
LOCAL MEMORY
MODEM M
NETWORK ADAPTER
218
220
I/O BUS
200
PCI BUS BRIDGE
PCI BUS
GRAPHICS ADAPTER
226
222
230
PCI BUS BRIDGE
PCI BUS
HARD DISK
228
224
232

FIG. 2

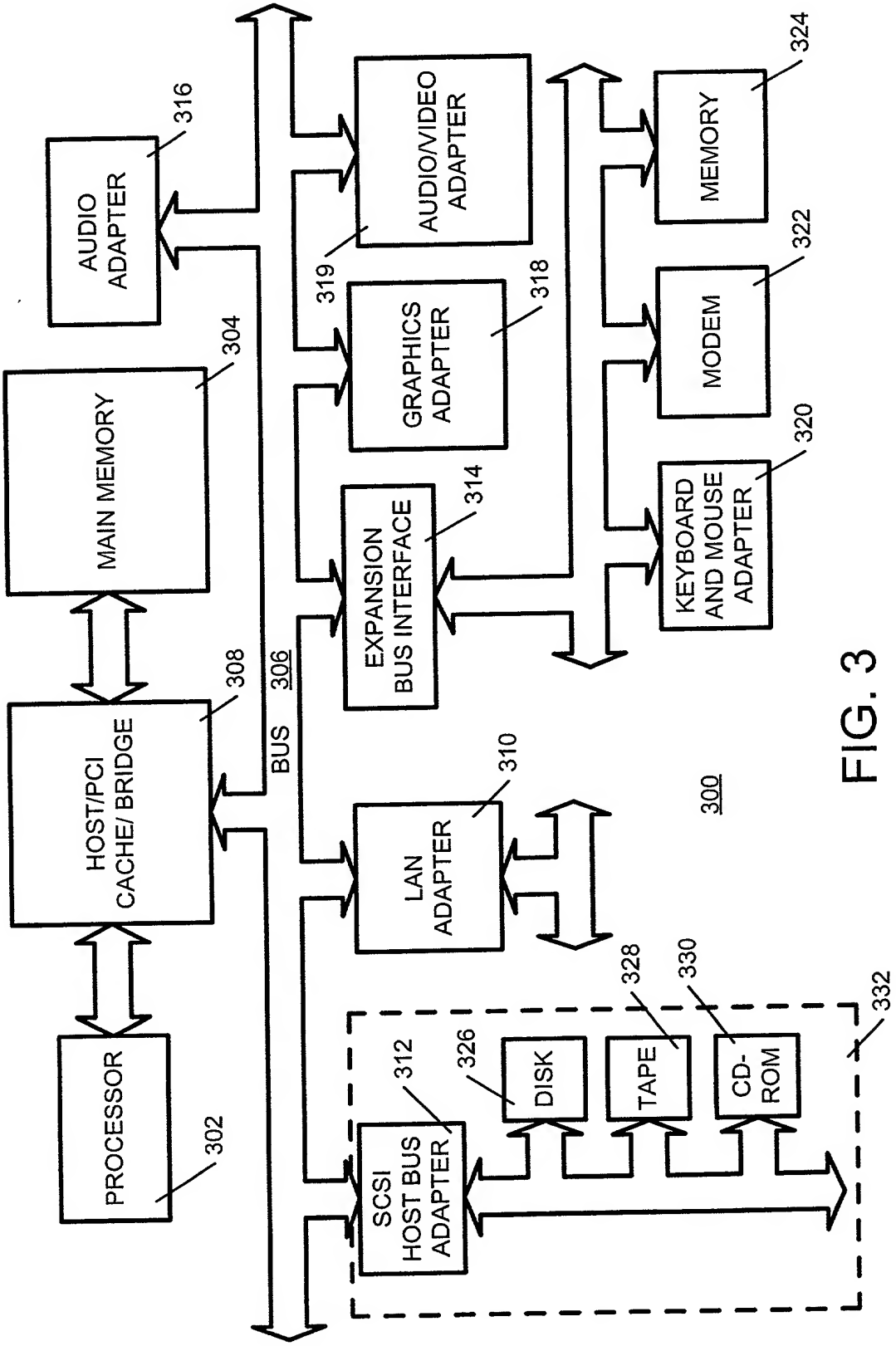
PROCESSOR
302
HOST/PCI CACHE/ BRIDGE
308
MAIN MEMORY
304
AUDIO ADAPTER
316
BUS
306
EXPANSION BUS INTERFACE
314
GRAPHICS ADAPTER
318
AUDIO/VIDEO ADAPTER
319
LAN ADAPTER
310
KEYBOARD AND MOUSE ADAPTER
320
MODEM
322
MEMORY
324
SCSI HOST BUS ADAPTER
312
DISK
326
TAPE
328
CD-ROM
330
332
300

FIG. 3

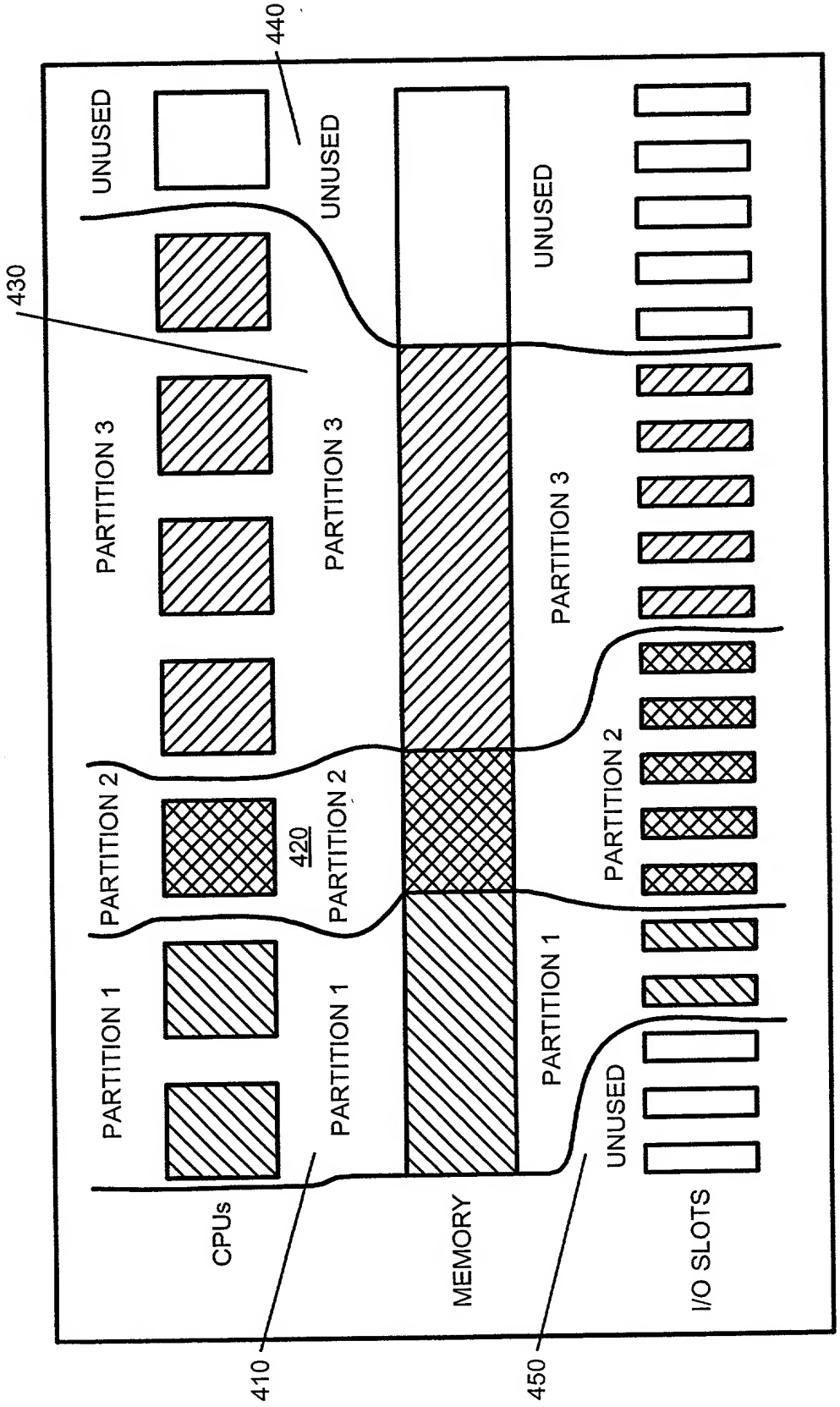
440
430
UNUSED
UNUSED
UNUSED
PARTITION 3
PARTITION 3
PARTITION 3
PARTITION 2
PARTITION 2
PARTITION 2
420
PARTITION 1
PARTITION 1
PARTITION 1
UNUSED
CPUs
MEMORY
I/O SLOTS
410
450

FIG. 4

	CPU'S	MEMORY LOCATIONS	I/O SLOTS
500 — $PARTITION_1$	CPU_1 & CPU_2	M_1 - M_{50}	$SLOT_4$ & $SLOT_5$
502 — $PARTITION_2$	CPU_3	M_{51} - M_{75}	$SLOT_6$ & $SLOT_{10}$
504 — $PARTITION_3$	CPU_4 - CPU_5	M_{76} - M_{150}	$SLOT_{11}$ & $SLOT_{15}$

FIG. 5

	CPU'S	MEMORY LOCATIONS	I/O SLOTS
$PARTITION_1$	CPU_1 & CPU_2	M_{21} - M_{50}	$SLOT_4$ & $SLOT_5$
$PARTITION_2$	CPU_3	M_1 - M_{20} & M_{51} - M_{75}	$SLOT_6$ - $SLOT_{10}$
$PARTITION_3$	CPU_4 - CPU_7	M_{76} - M_{150}	$SLOT_{11}$ - $SLOT_{15}$

FIG. 6

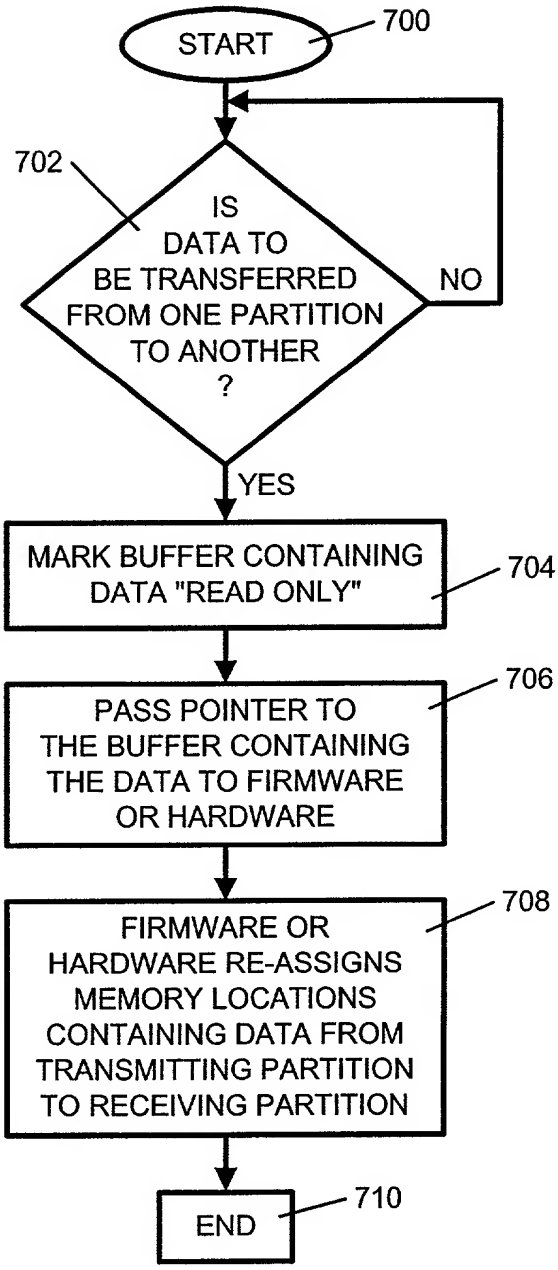
START
700
IS DATA TO BE TRANSFERRED FROM ONE PARTITION TO ANOTHER ?
702
NO
YES
MARK BUFFER CONTAINING DATA "READ ONLY"
704
PASS POINTER TO THE BUFFER CONTAINING THE DATA TO FIRMWARE OR HARDWARE
706
FIRMWARE OR HARDWARE RE-ASSIGNS MEMORY LOCATIONS CONTAINING DATA FROM TRANSMITTING PARTITION TO RECEIVING PARTITION
708
END
710

FIG. 7

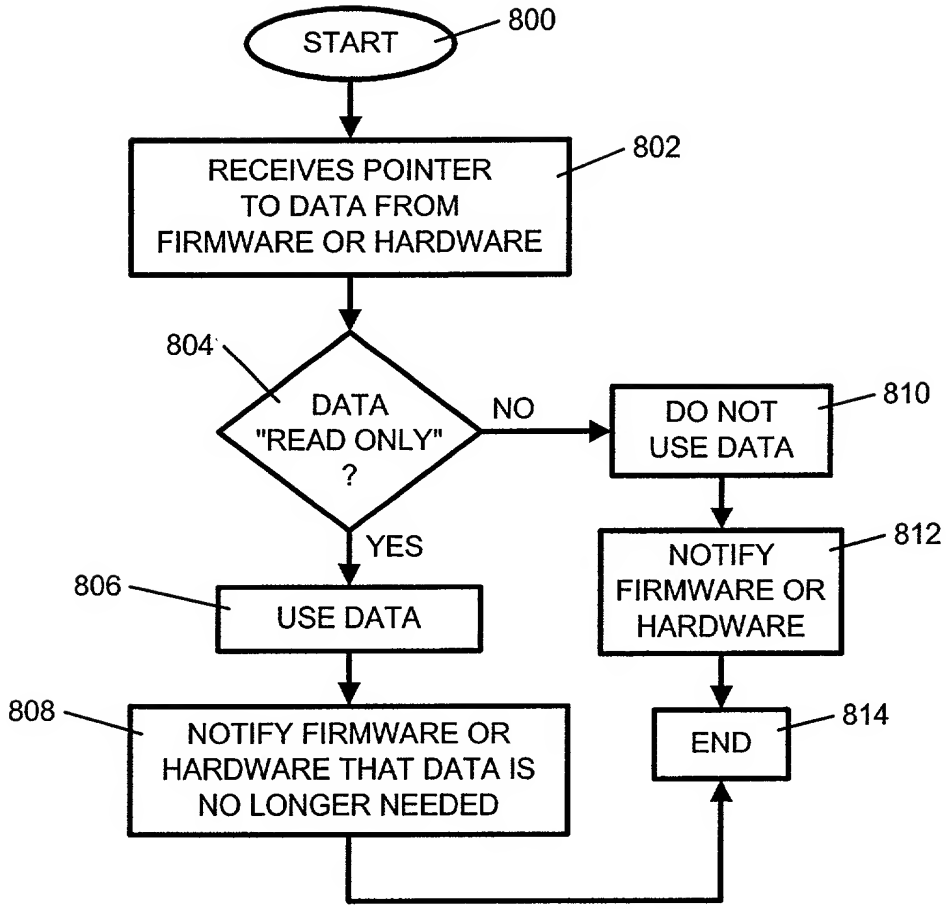
START
800
RECEIVES POINTER TO DATA FROM FIRMWARE OR HARDWARE
802
804
DATA "READ ONLY" ?
NO
DO NOT USE DATA
810
YES
806
USE DATA
NOTIFY FIRMWARE OR HARDWARE
812
808
NOTIFY FIRMWARE OR HARDWARE THAT DATA IS NO LONGER NEEDED
END
814

FIG. 8